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IB No. 349/63
4 December 1963
Copy 6 of 8

MEMORANDUM FOR: Chief, Manufacturing and Services Division, ORR

25X1 ATTENTION :

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID (NPIC)

SUBJECT : Shen-yang Arsenal Complex

REFERENCE : (1) ORR Requirement No. C-RR3-80,622/63
 (2) CIA/PID Project No. C 1142/63

1. This memorandum is in response to the referenced requirement which asks for an analysis of arsenals at Shen-yang, China, including the level of current activity and expansion since 1960.

2. Photographic coverage of Shen-yang and the vicinity was analyzed and four installations have been located and identified as being arsenals or producing munitions. Following is a detailed analysis of these installations with related annotated photo enlargements enclosed.

3. The Shen-yang Arsenal 90th , known as the 51st Arsenal by the Communist (See enclosure CIA/PID/IB-P-786/63) is the largest and most important arsenal in the complex. A copy of a memorandum dated 24 May 1963 to Chief, Military-Economics Division covering this installation, plus the ORR; Attention covering this installation, plus the Shen-yang Aircraft Engine Plant, is enclosed. Photo enlargements from Missions were enclosed with the copy memorandum. The enclosure CIA/PID/IB-P-786/63 is from and has been annotated to correspond with the copy memo. The changes in construction between the two missions were slight and are referred to in two places in the copy memo. The Key to Annotations on page 5 of the copy memo refer to the referenced annotations on enclosed photo enlargement:

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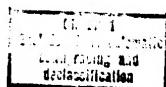
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No. 1 New building, function unknown - constructed on site of annotation 56.

No. 2 Unidentified objects, these are similar or the same as those annotated 88 on enclosed graphic.

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SUBJECT: Shen-yang Arsenal Complex

No. 3 Engine test building - same structure as annotation A of enclosed graphic.

No. 4 Same as annotation B of enclosed graphic.

The Key to Annotations at the top of page 7 of the copy memo refers to items on which can be cross referenced to the enclosed graphic.

No. 5 Test cell building - same as annotation D on enclosed graphic.

No. 6 Power plant - same as annotation 25 on enclosed graphic.

No. 7 Dismantled MIG-19 is new on

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The small amounts of raw material, paucity of vehicles and rail cars, and lack of smoke being emitted from stacks and vents indicates a low level of plant activity in

4. The shell loading plant (See enclosure CIA/PID/IB-P-787/63), is located just east of the Shen-yang Arsenal 90th. Facilities at this plant include one fabrication building, numerous revetted and unrevetted production and storage buildings, and two boiler houses. See enclosure CIA/PID/IB-P-787/63 for detailed analysis. Such facilities can be used for shell loading and storage. The housed test range (approximately 300 meters long) also is indicative of shell loading.

This plant is only served by road. Production activity may be stopped, or at the most, very low, as no smoke is being emitted from the boiler house stacks and no vehicles or personnel can be observed. However, the plant appears to be well maintained and there is coal stored by at least one of the boiler houses.

5. The probable ammunitions loading facility (See enclosure CIA/PID/IB-P-788/63), is located at the southeast end of the Shen-yang Southeast Airfield which is adjacent to the Shen-yang Arsenal 90th.

This plant is secured by a solid wall and is served only by road. The exact function cannot be determined; however, some buildings are revetted and others are surrounded by a heavy barrier of trees giving the impression that explosives are being handled or stored. The boiler house is not in operation, no vehicles or personnel can be observed and the road system within the plant does not appear to have been used recently or at least only to a very limited degree which indicated that the plant is shut down or operating at a very low level. See enclosure CIA/PID/IB-P-788/63 for detailed analysis.

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SUBJECT: Shen-yang Arsenal Complex

6. The Wen-kuan-tun Sub arsenal, Mukden 90th [redacted] 25 known as the 52nd Arsenal by the Communist (See enclosure CIA/PID/IB-P-789/63) is located 4.8 nautical miles north northeast of the old walled city of Shen-yang at 41 52N - 123 29E. The plant is secured by a solid wall and is served by both rail and road.

This integrated plant produces initiators, boosters, bursting powder as well as artillery projectiles. See enclosure CIA/PID/IB-P-789/63 for analysis of plant facilities. Lead azide is probably the initiator produced and black powder the bursting charge. The manufacturing section (G) contains foundries where projectiles are cast and numerous machine shops where the external and internal surfaces of the projectile are machined.

Vehicles and rail cars were observed in the plant area, smoke was being emitted by several stacks and crated goods were stored in the open which indicates that the plant is currently active.

The total roof cover of the production buildings, exclusive of explosive manufacturing, is 421,780 square feet. Production buildings pertaining to explosive manufacturing total an additional 203,445 square feet.

7. The photo analyst assigned to this project was [redacted] 25X1 who may be contacted on extension [redacted] should you have further questions concerning this project. This memorandum and its enclosures completes this requirement. 25X

ENCLOSURES:

4 Annotated Photo Enlargements
(CIA/PID/IB-P-786/63 thru P-789/63)
1 Copy of IOM (IB-92/63)

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